

ABSTRACT OF THE DISCLOSURE

Base station (100) includes a channel quality detecting unit (120) that detects channel quality between the base station and a mobile station (200), a buffered data amount monitoring unit (130), and a modulation and coding set determination unit (150). The modulation and coding set determination unit determines a modulation and coding set, as a downlink modulation scheme for packet communications, such that a prescribed communication condition corresponding to the channel quality is satisfied, and that padding added to the data buffered in a transmission buffer (140) for subsequent transmission to the mobile station becomes the minimum.

15